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 TI Hydrophilic insoluble cellulose as rheological modifier in
 water-immiscible liquids, and process for making thickeners
 IN ~~Chen, You-lung; Morrison, Neil A.; Burgum, Daniel~~
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	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	AU 2001085038	A5	20020313	AU 2001-85038	20010820
PRAI	US 2000-645320	A	20000825		
	WO 2001-US25821	W	20010820		

CLASS

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2002018486	ICM	C08L001-00	
AB	Hydrophilic insol. cellulose acts as a rheol. modifier in water-immiscible liqs. when mixed with co-agents capable of forming H bonds with the hydroxyl groups on the surface of the cellulose fiber and which are sol. in the water-immiscible liq. The co-agents may be surfactants or polymers, and are added to the water-immiscible liq. either prior to or during mixing with the hydrophilic insol. cellulose. Multiple co-agents can be added to the cellulose during or after addn. to the water-immiscible liq. The compn. generally has a co-agent/cellulose ratio 1:4 to 30:1. A dispersion of cellulose fiber /dodecylamine was added to mineral oil, showing a viscosity (170 s-1) 165 cP; vs. 42 cP for mineral oil only.		
ST	cellulose fiber surfactant thickener mineral		